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IN THE CLAIMS:

Please amend the claims as follows:

1. (currently amended) An active splitter for splitting a received input signal into a

plurality of split output signals, the active splitter comprising:

a plurality of active circuits connected in parallel that produce the plurality of split output

signals from the received input signal, wherein each active circuit of the plurality of active

circuits is a voltage follower and produces a corresponding split output signal from the plurality

of split output signals that is substantially similar to the received input signal; and

a controller in signal communication with the plurality of active circuits for powering up

and down the active circuits for forming one or more desired signal distribution paths from an

input signal-carrying input to one or more output signal-carrying outputs.

2. (canceled)

3. (currently amended) The active splitter of claim 1 [[2]], wherein the voltage

follower includes an emitter follower.

4. (previously presented) The active splitter of claim 3, wherein the emitter follower

includes a bipolar transistor.

5. (previously presented) The active splitter of claim 3, wherein the emitter follower

includes a Darlington pair transistor.

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6. (currently amended) The active splitter of claim 1 [[2]], wherein the voltage

follower includes a source follower.

7. (previously presented) The active splitter of claim 6, wherein the source follower

includes a Field Effect Transistor ("FET") transistor.

8. (previously presented) The active splitter of claim 7, wherein the FET transistor

is a MOFSET transistor.

9. (previously presented) The active splitter of claim 7, wherein the FET transistor

is a CMOS transistor.

10. (currently amended) The active splitter of claim  $\underline{1}$  [[2]], wherein the voltage

follower includes a differential amplifier.

11. (previously presented) The active splitter of claim 1, wherein the controller

communicates with the plurality of active circuits for controlling the electrical characteristics of

the plurality of active circuits.

12. (canceled)

13. (original) The active splitter of claim 11, wherein the controller is in signal

communication with a plurality of switches in signal communication with the plurality of active

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circuits, wherein each switch of the plurality of switches is capable of switching a corresponding active circuit of the plurality of active circuits to a state of ON or OFF in response to a control signal from the controller.

- 14. (canceled)
- 15. (original) The active splitter of claim 1, further including a first gain stage in signal communication with the plurality of active circuits, wherein the first gain stage receives the received input signal,

  produces an amplified signal from the received input signal, and passes the amplified signal to the plurality of active circuits.
- 16. (previously presented) The active splitter of claim 15, wherein the first gain stage includes at least one first gain stage active circuit that amplifies the received input signal.
- 17. (previously presented) The active splitter of claim 16, wherein the at least one first gain stage active circuit includes a common-emitter amplifier.
- 18. (previously presented) The active splitter of claim 17, wherein the commonemitter amplifier includes a bipolar transistor.
- 19. (previously presented) The active splitter of claim 18, wherein the commonemitter amplifier includes a Darlington pair transistor.

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20. (previously presented) The active splitter of claim 16, wherein the at least one

first gain stage active circuit includes a common-source amplifier.

21. (previously presented) The active splitter of claim 20, wherein the common-

source amplifier includes a Field Effect Transistor ("FET") transistor.

22. (previously presented) The active splitter of claim 21, wherein the FET transistor

is a MOSFET transistor.

23. (previously presented) The active splitter of claim 21, wherein the FET transistor

is a CMOS transistor.

24. (previously presented) The active splitter of claim 16, wherein the at least one

first gain stage active circuit includes a differential amplifier.

25. (previously presented) The active splitter of claim 16, wherein the controller is in

signal communication with the first gain stage for controlling the at least one first gain stage

active circuit.

26. (original) The active splitter of claim 25, wherein the controller is in signal

communication with the plurality of active circuits for controlling the electrical characteristics of

the plurality of active circuits.

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27. (canceled)

28. (original) The active splitter of claim 26, wherein the controller is in signal

communication with a plurality of switches in signal communication with the plurality of active

circuits, wherein each switch of the plurality of switches is capable of switching a corresponding

active circuit of the plurality of active circuits to a state of ON or OFF in response to a control

signal from the controller.

29. (canceled)

30. (previously presented) The active splitter of claim 27, wherein the controller is

capable of switching between the at least one first gain stage active circuit to the plurality of

voltage followers.

31. (previously presented) A method for splitting an input signal into a plurality of

output signals, with an active splitter, the method comprising:

receiving the input signal with a plurality of voltage followers connected in parallel;

controlling the plurality of voltage followers by powering one or more of the voltage

followers up or down to form one or more desired signal distribution paths from an input signal-

carrying input to one or more output signal-carrying outputs; and

producing the plurality of output signals with the plurality of voltage followers in

accordance with the one or more formed signal distribution paths, wherein each voltage follower

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of the plurality of voltage followers produces a corresponding output signal of the plurality of

output signals that is substantially similar to the input signal.

32. (original) The method of claim 31, further including amplifying the input signal

prior to the input signal being received by the plurality of followers.

33. (original) The method of claim 32, further including:

determining the output values produced by the followers with a controller;

comparing the output values produced by the followers with the input signal to the

followers; and

adjusting the amplification of the input signal with the controller based on the comparison

of the output values produced by the followers and the input signal to the followers.

34. (previously presented) An active splitter for splitting an input signal into a

plurality of output signals, with an active splitter, the active splitter comprising:

means for receiving the input signal with a plurality of voltage followers connected in

parallel;

means for controlling the plurality of voltage followers by powering one or more of the

voltage followers up or down to form one or more desired signal distribution paths from an input

signal-carrying input to one or more output signal-carrying outputs; and

means for producing the plurality of output signals with the plurality of voltage followers

in accordance with the one or more formed signal distribution paths, wherein each voltage

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follower of the plurality of voltage followers produces a corresponding output signal of the

plurality of output signals that is substantially similar to the input signal.

35. (original) The active splitter of claim 34, further including means for amplifying

the input signal prior to its being split into a plurality of output signals.

36. (original) The active splitter of claim 34, further including:

means for determining the output values produced by the followers with a controller;

means for comparing the output values produced by the followers with the input signal to

the followers; and

means for adjusting the amplification of the input signal with the controller based on the

comparison of the output values produced by the followers and the input signal to the followers.

37. (previously presented) The active splitter of claim 1 comprising a plurality of

switches in signal communication with the controller and with the plurality of active circuits,

wherein each switch is capable of switching a corresponding active circuit to a state of ON or

OFF in response to a control signal from the controller.

38. (previously presented) The active splitter of claim 15 comprising a plurality of

switches in signal communication with the controller and with the plurality of active circuits,

wherein each switch is capable of switching a corresponding active circuit to a state of ON or

OFF in response to a control signal from the controller.

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39. (previously presented) The method of claim 31 wherein controlling the plurality

of voltage followers comprises switching one or more of the voltage followers to a state of ON or

OFF.

40. (previously presented) The active splitter of claim 34 wherein the controlling

means comprises means for switching one or more of the voltage followers to a state of ON or

OFF.

41. (currently amended) An active splitter for splitting a plurality of received input

signals into a plurality of split output signals, the active splitter comprising:

a plurality of first active circuits connected in parallel and producing the plurality of split

output signals from a first input signal of the plurality of received input signals, wherein each

first active circuit produces a corresponding first split output signal from the plurality of split

output signals that is substantially similar to the first input signal; and

a plurality of second active circuits connected in parallel and producing the plurality of

split output signals from a second input signal of the plurality of received input signals, wherein

each second active circuit produces a corresponding second split output signal from the plurality

of split output signals that is substantially similar to the second input signal; and

a first gain stage in signal communication with the plurality of first and second active

circuits, wherein the first gain stage receives the plurality of received input signals, produces

amplified signals from the plurality of received input signals, and passes the amplified signals to

the plurality of first and second active circuits.

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42. (previously presented) The active splitter of claim 41, further including a

controller in signal communication with the plurality of first and second active circuits for

powering up and down the first and second active circuits for forming one or more desired signal

distribution paths from respective inputs carrying the first and second input signals to

corresponding outputs carrying the first and second split output signals.

43. (previously presented) The active splitter of claim 42 comprising a plurality of

switches in signal communication with the controller and with the plurality of first and second

active circuits, wherein each switch is capable of switching a corresponding active circuit to a

state of ON or OFF in response to a control signal from the controller.

44. (previously presented) The active splitter of claim 41, further including a

controller that is in signal communication with the plurality of first and second active circuits for

controlling the electrical characteristics of the plurality of first and second active circuits.

45. (previously presented) The active splitter of claim 44, wherein the controller is in

signal communication with a plurality of switches in signal communication with the plurality of

first and second active circuits, wherein each switch of the plurality of switches is capable of

switching a corresponding active circuit of the plurality of first and second active circuits to a

state of ON or OFF in response to a control signal from the controller.

46. (canceled)

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47. (currently amended) The active splitter of claim 41 [[46]], wherein the first gain

stage includes at least one first gain stage active circuit that amplifies at least one of the received

input signals.

48. (previously presented) The active splitter of claim 47, further including a

controller in signal communication with the first gain stage for controlling the at least one first

gain stage active circuit.

49. (previously presented) The active splitter of claim 48 wherein the controller is in

signal communication with the plurality of first and second active circuits for controlling the

electrical characteristics of the plurality of first and second active circuits.

50. (previously presented) The active splitter of claim 49 comprising a plurality of

switches in signal communication with the controller and with the plurality of first and second

active circuits, wherein each switch is capable of switching a corresponding active circuit to a

state of ON or OFF in response to a control signal from the controller.

Please add the following new claims:

51. (new) An active splitter for splitting a received input signal into a plurality of

split output signals, the active splitter comprising:

a plurality of active circuits connected in parallel that produce the plurality of split output

signals from the received input signal, wherein each active circuit of the plurality of active

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circuits produces a corresponding split output signal from the plurality of split output signals that is substantially similar to the received input signal;

a controller in signal communication with the plurality of active circuits for powering up and down the active circuits for forming one or more desired signal distribution paths from an input signal-carrying input to one or more output signal-carrying outputs; and

a first gain stage in signal communication with the plurality of active circuits, wherein the first gain stage receives the received input signal, produces an amplified signal from the received input signal, and passes the amplified signal to the plurality of active circuits.

- (new) The active splitter of claim 51, wherein the first gain stage includes at least 52. one first gain stage active circuit that amplifies the received input signal.
- (new) The active splitter of claim 52, wherein the at least one first gain stage 53. active circuit includes a common-emitter amplifier.
- (new) The active splitter of claim 53, wherein the common-emitter amplifier 54. includes a bipolar transistor.
- (new) The active splitter of claim 54, wherein the common-emitter amplifier 55. includes a Darlington pair transistor.
- (new) The active splitter of claim 52, wherein the at least one first gain stage 56. active circuit includes a common-source amplifier.

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57. (new) The active splitter of claim 56, wherein the common-source amplifier includes a Field Effect Transistor ("FET") transistor.

58. (new) The active splitter of claim 57, wherein the FET transistor is a MOSFET

transistor.

59. (new) The active splitter of claim 57, wherein the FET transistor is a CMOS

transistor.

60. (new) The active splitter of claim 52, wherein the at least one first gain stage

active circuit includes a differential amplifier.

61. (new) The active splitter of claim 52, wherein the controller is in signal

communication with the first gain stage for controlling the at least one first gain stage active

circuit.

62. (new) The active splitter of claim 61, wherein the controller is in signal

communication with the plurality of active circuits for controlling the electrical characteristics of

the plurality of active circuits.

63. (new) The active splitter of claim 62, wherein each of the plurality of active

circuits is a voltage follower.

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64. (new) The active splitter of claim 63, wherein the controller is capable of

switching between the at least one first gain stage active circuit to the plurality of voltage

followers.

65. (new) The active splitter of claim 62, wherein the controller is in signal

communication with a plurality of switches in signal communication with the plurality of active

circuits, wherein each switch of the plurality of switches is capable of switching a corresponding

active circuit of the plurality of active circuits to a state of ON or OFF in response to a control

signal from the controller.

66. (new) The active splitter of claim 65, wherein each of the plurality of active

circuits is a voltage follower.

67. (new) The active splitter of claim 51 comprising a plurality of switches in signal

communication with the controller and with the plurality of active circuits, wherein each switch

is capable of switching a corresponding active circuit to a state of ON or OFF in response to a

control signal from the controller.

68. (new) The active splitter of claim 51, wherein each of the plurality of active

circuits is a voltage follower.

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- 69. (new) The active splitter of claim 68, wherein the voltage follower includes an emitter follower.
- 70. (new) The active splitter of claim 69, wherein the emitter follower includes a bipolar transistor.
- 71. (new) The active splitter of claim 69, wherein the emitter follower includes a Darlington pair transistor.
- 72. (new) The active splitter of claim 68, wherein the voltage follower includes a source follower.
- 73. (new) The active splitter of claim 72, wherein the source follower includes a Field Effect Transistor ("FET") transistor.
- 74. (new) The active splitter of claim 73, wherein the FET transistor is a MOFSET transistor.
- 75. (new) The active splitter of claim 73, wherein the FET transistor is a CMOS transistor.
- 76. (new) The active splitter of claim 68, wherein the voltage follower includes a differential amplifier.